Swiss Transplant Cohort Study Scientific Output List June 2017

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Publications in peer-reviewed journal in press or published


29. Buhler, S., et al., A significant effect of the KIR ligand HLA-C on fibrosis progression in chronic C hepatitis with or without liver transplantation. Liver Int, 2015.


Patient-related publications


Oral presentation of abstracts


Beckmann S, Nikolic N, Denhaerynck K, Binet I, Koller M, Boely E, De Geest S for the Psychosocial Interest Group, Swiss Transplant Cohort Study. *Description of body weight parameters up to 3 years after solid organ transplantation: the prospective Swiss Transplant Cohort Study*. ESOT Congress of the European Society for Organ Transplantation, Barcelona, Spain, September 24-27, 2017

Return to work 12 months after kidney transplantation: results of a cohort study in Switzerland.


27.06.2017


E. Bernasconi A. Koutsokera C. Pattaroni C. Berutto, B. Camara B.J. Marsland C. Benden, C. Pison, J.-D. Aubert, L.P. Nicod Pulmonary service, CHUV and STCS, Lausanne, Switzerland, University Pulmonology Clinic, CHU, Grenoble, France, Division of Pulmonary Medicine, University Hospital Zurich, Zurich, Switzerland, and SysCLAD FP7 Consortium, Lyon, France. Alveolar macrophages and pulmonary microbiota are interconnected indicators of lung ecology post-transplantation. ERS meeting Amsterdam, September 2015


Christian van Delden, Geneva; R. Sacclotto, Basel; Pascal Meylan, Lausanne; Oriol Manuel, Lausanne; Christian Garzoni, Lugano; Alexia Cusini, Bern; Hans H. Hirsch, Basel; Maja Weisser, Basel; Nina Khanna, Basel; Katia Boggian, St. Gallen; David Nadal, Zürich; C. Berger, Zürich; M. Koller, Basel; Susanne Stampf, Basel; Nicolas J. Mueller, Zürich; and the Swiss Transplant Cohort Study. Opportunistic Infections After Solid Organ Transplantation (SOT) are Rare In The Swiss Transplant Cohort Study (STCS). World Transplant Congress 2014


27.06.2017
Alveolar macrophage polarization: witness of dynamic changes in lung-transplanted patients. E.Bernasconi, A.Koutsokera, BJ Marsland, C.Pison, JD Aubert, LP Nicod, the SysCLAD and COLT consortiums, with the collaboration of the STCS committee. Société Suisse de Pneumologie. Respiration 2014;87:543 (A103) 2014

Beaume M, Köhler T, Manuel O, Aubert JD, Gasche P, van Delden and the Swiss Transplant Cohort Study. Evolution of the microbiome and adaptation of Pseudomonas aeruginosa to the allograft after lung-transplantation in cystic fibrosis patients. GDR Pseudomonas 2013


J-F, Mullhaupt B, Menta G, Negro F, Giostra E, Villard J on behalf of the Swiss HCV Cohort Study and Swiss Transplant Cohort Study IL28B, KIR genes and HLA ligands in chronic Hepatitis C virus infection before and after liver transplantation European Federation for Immunogenetics 2012

Abstracts, poster presentation

Beckmann S, Nikolic N, Denhaerynck K, Binet I, Koller M, Boely E, De Geest S for the Psychosocial Interest Group, Swiss Transplant Cohort Study. **Evolution of body weight parameters up to 3 years after liver transplantation: the prospective Swiss Transplant Cohort Study** EASL, The International Liver Congress™, Amsterdam, The Netherlands, April 19-23, 2017

Koller M, Achermann R for the Psychosocial Interest Group and the Swiss Transplant Cohort Study. **Disparities in live donor kidney transplantation in Switzerland.** Forschungstag Universitätsspital Basel. 2017

Beckmann S, Dutkowski P, Nikolic N, Denhaerynck K, Binet I, Koller M, Boely E, De Geest S for the Psychosocial Interest Group, Swiss Transplant Cohort Study. **Evolution of body weight parameters up to 3 years after liver transplantation: the prospective Swiss Transplant Cohort Study.** Poster presentation at the International Liver Congress, Amsterdam, The Netherlands. 2017


A. Koutsokera‡, P.J. Royer‡, A.Fritz³, A.Tissot², K.Botturi², C. Benden⁴, JP Antonietti¹, P. M. Soccalet⁵, J. D. Aubert¹, A.Magnan², C. Pison⁶, L. P. Nicod⁴ with the collaboration of the Swiss Transplant Cohort Study (STCS), the French Cohort of Lung Transplantation (COLT) and the SysCLAD consortium (Systems prediction of chronic lung allograft dysfunction: a European Union-funded study, grant agreement No FP7:305457-2) **Risk factors for Chronic Lung Allograft Dysfunction (CLAD) in the SysCLAD cohort** ERS meeting Amsterdam, September 2015

Cusini A, Beguelin Ch, Stampf S, Boggian K, GarzoniCh, Meylan P, Müller N, Manuel O, Weisser M and van Delden C for the STCS. **Low morbidity and mortality of Clostridium difficile infections in SOT recipients of the STCS.** ePoster presentation ECCMID 2015


A. Koutsokera1, C. Benden2, P. M. Soccal3, J. P. Antonietti1, L. P. Nicod1, J. D. Aubert1 Clinical factors associated with Chronic Lung Allograft Dysfunction (CLAD) in the Swiss Transplant Cohort Study. JHLT, ISHLT, Nice, France, April 2015 1 Respiratory Medicine Department, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland, 2 Division of Pulmonary Medicine, University Hospital Zurich, Zurich, Switzerland, 3 Respiratory Medicine Department, University Hospital of Geneva, Geneva, Switzerland. With the collaboration of the STCS and the SysCLAD consortiums (European Union-funded study, FP7: 305457-2), 2015

Beaume M, Köhler T, Manuel O, Aubert JD, Gasche P, van Delden C and the Swiss Transplant Cohort Study. Evolution of the microbiome and adaptation of Pseudomonas aeruginosa to the allograft after lung-transplantation in cystic fibrosis patients. EMBO conference Genome (Nature Reviews Microbiology poster award) 2014

E. Bernasconi, A. Koutsokera, D. Dumas, BJ Marsland, C. Pison, JD Aubert, LP Nicod, the SysCLAD and COLT consortiums, with the collaboration of the STCS committee. Dysbiosis of Pulmonary microbiota and lower respiratory tract infection post lung transplantation. Société Suisse de Pneumologie. Respiration 2014;87:543 (A104), 2014


A.Koutsokera, J.D.Aubert, K.Botturi, A.Magnan, A.Boehler, C.Pison, L.P.Nicod, the SysCLAD and COLT consortiums, with the collaboration of the STCS committee. The SysCLAD study: targeting towards an early prediction of chronic lung allograft dysfunction. Société Suisse de Pneumologie. Respiration 2013;85:592 (P246), 2013


Staubli M, Anliker MD, Arnold AA; et al. The Prospective Swiss Transplant Cohort Study STCS Identifies Skin Cancer Risk in a 2-Year Analysis of Solid Organ Transplant

27.06.2017
**Recipients.** American Transplant Congress Location: Boston, MA Date: MAY, 2012.
American Journal of Transplantation Volume: 12 Special Issue: SI 3: 353-354 Meeting

Giostra E, Villard J on behalf of the Swiss HCV Cohort Study and Swiss Transplant Cohort
Study IL28B, KIR genes and HLA ligands in chronic Hepatitis C virus infection before
and after liver transplantation American Transplant Congress 2012

Staubli M, AnlikerM, Andreas A; et al. Skin cancer development in solid organ transplant
recipients: a 2 year interim analysis of the Swiss Transplant Cohort Study (STCS).
Conference: 41st Annual Meeting of the European-Society-for-Dermatological-Research
Location: Barcelona, Spain. Journal of investigative dermatology Volume:131 Supplement: 2:
S25-S25, 2012

R. Saccilotto R, Koller MT, van Delden C, for the Swiss Transplant Cohort Study. Infectious
Disease Burden after Solid Organ Transplantation (SOT) in the Swiss Transplant
Cohort Study (STCS). American Transplant Congress, 2011
Publications submitted under review


8. Cusini A, Beguelin Ch, Stampf S, Boggian K, Garzoni Ch, Meylan P, Müller N, Manuel O, Weisser M and van Delden C for the STCS. Low morbidity and favorable outcome of Clostridium difficile infections in SOT recipients of the STCS. In revision for AJT
Publications in preparation


Koller Michael, Branca Sanda, Zumbrunn Thomas, Rick Juliane, Danuser Brigitta, Kunz Regina Steiger Juerg, Hug Balthasar L (corr), for the Swiss Transplantation Cohort Renal Transplantation, Employment and Disability: A longitudinal study nested within the Swiss Transplant Cohort Study.


Achermann Rita, Koller Michael, Binet Isabelle, Kiss Alexander for the Psychosocial Interest Group and the Swiss Transplant Cohort Study. Disparities in living vs deceased donor kidney transplantation in Switzerland.


R. Steiner, Dr R. Kridel, Dr. E. Giostra, Dr. TA. McKee, Prof. PY. Dietrich, et al. The impact of advances in immunosuppressive drugs over the last two decades on the incidence, characteristics and outcome of lymphoma after solid organ transplantation in Switzerland.

27.06.2017

Beckmann S, Nikolic N, Denhaerynck K, Binet I, Boely Janke E, De Geest S, for the Psychosocial Interest Group and the Swiss Transplant Cohort Study. Pre- and post transplant risk factors for weight gain and obesity at 1 year after solid organ transplantation – a secondary data analysis of the Swiss Transplant Cohort Study.


Oliver Mauthner, Veerle Claes, Kris Denhaerynck, Hanna Burkhalter, Lut Berben, Isabelle Binet, Andreina Bonzanigo, Michael Dickenmann, Thomas Fehr, Karine Hadaya, Manuel Pascual, Uyen Huynh-Do, Michael Koller, Sabina De Geest, for the STCS Psychosocial Interest Group and the Swiss Transplant Cohort Study. Working title: The predictive value of chronological age at time of kidney transplantation for patient and graft survival up to 4 years post-transplant: an analysis using competing risks.

Achermann R, Koller M, Binet I, Kiss A for the Psychosocial Interest Group and the Swiss Transplant Cohort Study. Disparities in live donor kidney transplantation in Switzerland


Stéphane Buhler, Emiliano Giostra, Corinne Gbame, Miguel de Maestral, Casimir de Rham, Beat Mulhaupt-Jean-François Dufour, Gilles Menta, Pietro Majno, Franco Negro, Pierre-Yves Bochuz, and Jean Villard on behalf of the Swiss HCV Cohort Study and Swiss Transplant Cohort Study. The genetic characterization of Killer Cell Immunoglobulin-like receptors (KIR) and their Human Leukocyte Antigen (HLA) ligands in transplanted and non-transplanted patients with chronic C hepatitis reveals a significant effect of HLA-C on fibrosis progression.

Description of bal proteome after lung transplantation and comparison with healthy people.


Oliver Mauthner, Veerle Claes, Kris Denhaerynck, Hanna Burkhalter, Lut Berben, Isabelle Binet, Andreina Bonzanigo, Michael Dickenmann, Thomas Fehr, Karine Hadaya, Manuel Pascual, Uyen Huynh-Do, Michael Koller, Sabina De Geest, for the STCS Psychosocial Interest Group and the Swiss Transplant Cohort Study. Working title: The predictive value of chronological age at time of kidney transplantation for patient and graft survival up to 4 years post-transplant: an analysis using competing risks.


Epidemiology, Risk Factors and Clinical Outcomes of Invasive Aspergillosis in Solid Organ Transplant Recipients in the Swiss Transplant Cohort.
# National collaborations

<table>
<thead>
<tr>
<th>Project</th>
<th>Collaboration /Partners</th>
<th>Status / Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of STCS reporting tools</td>
<td>Clinical trial unit (CTU) Basel</td>
<td>See subproject 1, milestones</td>
</tr>
<tr>
<td>Annual reporting</td>
<td>Federal Office of Public Health (FOPH) and G15</td>
<td>See subproject 1, milestones</td>
</tr>
<tr>
<td>Data quality auditing project DQA II</td>
<td>All Swiss CTU’s</td>
<td>See subproject 2, milestones</td>
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<td>Human Research Act (HRA) adaptation</td>
<td>Prof. Beat Rudin, data protection officer of Basel (Datenschutzbeauftragter Basel-Stadt)</td>
<td>See subproject 2, milestones</td>
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<tr>
<td>FUP016 (PDFMP3_137125)</td>
<td>Institute for Work and Health (IST), University of Lausanne</td>
<td>Return to Work: a long-term follow-up study after solid organ transplantation in Switzerland</td>
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<tr>
<td>FUP044</td>
<td>Federal Social Insurance Office (FSIO/BSV)</td>
<td>Invalidity assessment and evolution after renal TPX. Linkage pilot study of data from STCS with data from BSV. Role model for legal and ethical requirements for nation data linkage studies.</td>
</tr>
<tr>
<td>FUP055</td>
<td>Swiss HIV cohort study <a href="http://www.shcs.ch">www.shcs.ch</a></td>
<td>Variation of CT-patterns of Pneumocystis jirovecii pneumonia (PCP) in HIV-infected individuals and recipients of solid organ transplants (SOT)</td>
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<tr>
<td>FUP057</td>
<td>Unit of Pharmacogenetics and Clinical Psychopharmacology, Department of Psychiatry, Lausanne University Hospital, Prilly, Switzerland,</td>
<td>Collaboration to explore genes associated with weight gain after transplantation, manuscript published</td>
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<tr>
<td>FUP075</td>
<td>Swiss Hepatitis C cohort</td>
<td>Impact of donor and recipient PNPLA3 genotype on fibrosis progression in patients with recurrent hepatitis C after liver transplantation: analysis of the Swiss Hepatitis C Cohort Study and of the Swiss Transplant Cohort Study</td>
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</table>
### International collaborations

<table>
<thead>
<tr>
<th>Project</th>
<th>Collaboration / Partners</th>
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<tbody>
<tr>
<td>FUP005</td>
<td>Harvard Medical School, Beth Israel Deaconess Medical Center, Boston (USA)</td>
<td>Collaboration to evaluate if the pre-transplant Social Adaptability Index predicts mortality in Tx recipients at 1 year post Tx, manuscript in preparation</td>
</tr>
<tr>
<td>FUP007</td>
<td>SCOPE skin care in organ transplant patients Europe. Jan Nico Bouwes Bavinck, Leiden, NL; Sylvie Euvrard, Lyon, F</td>
<td>Pain study mechanism. Doctoral study in manuscript stage</td>
</tr>
<tr>
<td>FUP007</td>
<td>ITSCC International Transplant Skin Cancer Collaborative. Chrysalene Schmults, Harvard, Boston, USA; Oscar Colegio, Yale, New Haven, USA; Sarah Arron, UCSF, San Francisco, USA</td>
<td>SCC aggressive course. In manuscript stage</td>
</tr>
<tr>
<td>FUP007</td>
<td>Keracon Keratinocyte cancer collaborative; Amanda Toland, Ohio State University, Columbus, USA; Tatiana Oberyaszyn, Ohio State University, Columbus, USA</td>
<td>NIH RO1 grant proposal submitted</td>
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<tr>
<td>FUP017</td>
<td>Spanish cohort “Resitra”</td>
<td>Aspergillus infections in kidney transplant recipients 2 manuscripts have been published</td>
</tr>
<tr>
<td>FUP021</td>
<td>NCE CECR Centre of Excellence for PRevention of Organ Failure (PROOF Centre): A not-for-profit organization, co-hosted by the University of British Columbia and Providence Health Care, Canada</td>
<td>Evaluation of genomic and proteomic blood biomarkers for diagnosis of heart/kidney allograft rejection Work in progress</td>
</tr>
<tr>
<td>FUP023</td>
<td>Atul Humar, Alberta Transplant Institute, Edmonton, Canada, currently Toronto, Canada</td>
<td>Innate and adaptive immune biomarkers and cytomegalovirus posttransplant One article published, one submitted</td>
</tr>
<tr>
<td>FUP027</td>
<td>French multicentric cohort (DIVAT, Informatic and VALidated Data in Transplantation)</td>
<td>Innate immune determinants of graft outcome after kidney transplantation Two publications in progress</td>
</tr>
<tr>
<td>FUP030</td>
<td>SysCLAD (Systems prediction of Chronic Lung Allograft Dysfunction), Cohort in Lung Transplantation, COLT SysCLAD EU</td>
<td>3 articles published. One manuscript submitted</td>
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<tr>
<td>FUP052</td>
<td>Randomized clinical trial: Monitoring of specific cytomegalovirus cell-mediated immunity (CMV-CMI) for optimisation of preventive strategies against CMV infection in high-risk solid-organ transplant recipientsLophius Biosciences (Regensburg, Germany)</td>
<td>Enrolment ongoing</td>
</tr>
<tr>
<td>FUP058</td>
<td>French-Belgian-Swiss International Study Group on Nocardia infections in SOT</td>
<td>Study completed and 2 publications</td>
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<tr>
<td>FUP071</td>
<td>Swiss Institute of Bioinformatics (CH); Swiss HIV Cohort Study (CH); Department of Health Promotion and Development, School of Nursing, University of Pittsburgh, Pennsylvania (USA)</td>
<td>Collaboration to identify genes and biological pathways associated with medication non-adherence in the first year after transplant, full proposal submitted to scientific committee</td>
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<tr>
<td>FUP072</td>
<td>European Group of Blood and Marrow Transplantation</td>
<td>Psychosocial questionnaire in hematopoietic stem cell transplant patients - association between relationship status and survival, relapse and graft-versus-host disease. Data sets are merged for joint analysis</td>
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<tr>
<td>FUP073</td>
<td>Center on Aging and Health, Johns Hopkins University, Baltimore (USA) <a href="http://coah.jhu.edu/">http://coah.jhu.edu/</a></td>
<td>Data collection ongoing (longitudinal study design). Two publications have been published. First preliminary analysis of frailty and mild cognitive impairment at the time of transplant in progress.</td>
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<tr>
<td>FUP074</td>
<td>European INCREMENT network, REIPI, ESGICH. Outcome of multidrug resistant (MDR) Gram negative bloodstream infections in SOT</td>
<td>All data collected and transmitted. Analysis ongoing. Publication planned for 2018</td>
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<td>ID</td>
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<td>FUP084</td>
<td>Infection in liver transplant recipients &gt; 65 years: AST IDCOP study</td>
<td>Data acquisition ongoing, Abstract submitted</td>
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<tr>
<td>FUP085</td>
<td>Current world expertise in thoracic transplantation in HIV-positive recipients: American Society of Transplantation_ID Community of practice study</td>
<td>Data acquisition ongoing</td>
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<tr>
<td>FUP090</td>
<td>Efficacy and safety of different antimicrobials in BSI due to ESBL or carbapenemase-producing Enterobacteriaceae in SOT: ESCMID_STCS <a href="https://www.escmid.org/research_projects/study_groups/immunocompromised_hosts/">https://www.escmid.org/research_projects/study_groups/immunocompromised_hosts/</a></td>
<td>Data acquisition ongoing</td>
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<tr>
<td>FUP092</td>
<td>Novel Memory B Cell ELISPOT Assays to Predict Immune Responses in Renal Allograft Recipients Transplanted Across Donor-specific HLA Antibodies</td>
<td>Experimental work ongoing</td>
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<td>STCS ID group</td>
<td>German Centre for Infection Research (DZIF)</td>
<td>Definitions for infectious events have been transmitted for the STCS to the DZIF to harmonize data collection between the 2 databases</td>
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<tr>
<td>PSIG</td>
<td>ELEMENT STUDY: Exploring a genomic basis for Medication Nonadherence in Transplantation</td>
<td>Collaboration between genetics and PSIG</td>
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## External additional funds for scientific projects

Source:
- Industry/private companies: 1
- Other foundations/NGOs: 2
- Other administrations/public sector: 3

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<th>Project</th>
<th>Name of organization (source)</th>
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<td>FUP001</td>
<td>Roche Pharma Switzerland (1), unrestricted grant</td>
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<td>FUP005</td>
<td>Roche Pharma Switzerland (1) Astellas (1) Novartis (1)</td>
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<td>FUP006</td>
<td>Astellas (1)</td>
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<td>2009</td>
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<td>FUP007</td>
<td>Meda Pharma Schweiz AG (1) Spirig Pharma AG (1) SNFS 314730_163369 (3)</td>
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<td>Novartis (1)</td>
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<td>FUP010</td>
<td>Fondation pour l'Avancement en Microbiologie et Maladies Infectieuses (2)</td>
<td>30'000</td>
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<td>FUP012</td>
<td>&quot;Mémoire research grant (MRG)&quot;(1) Fondation Emma Muschamp (Lausanne) (2) Astellas (1)</td>
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<td>FUP015</td>
<td>Roche Pharma Schweiz (1)</td>
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<td>FUP016</td>
<td>SNFS PDFMP3_137125 (3)</td>
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<td>FUP017</td>
<td>MSD Merck Sharp &amp; Dome AG (1)</td>
<td>95'000</td>
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<td>FUP022</td>
<td>Roche Organ Transplant Research Foundation (ROTRF) (1) SNFS 140929 (3) SNFS 159523 (3)</td>
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<td>FUP026</td>
<td>Projet recherche et développement, Geneva University (3)</td>
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<td>FUP027</td>
<td>Unrestricted grant from Astellas (1) Fondation Medi-CAL Futur (2)</td>
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<td>FUP030</td>
<td>Systems prediction of Chronic Lung Allograft Dysfunction (SYSCALD) (3)</td>
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<td>Adolf und Lotte Hotz Stiftung (2) Stiftung Pflegewissenschaft Schweiz (2)</td>
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<td>FUP099</td>
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